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EOS Corporation
MEDICAL POWER SUPPLIES

MVLT40 Series

Single and Triple Output 40W Medical AC/DC Power Supplies

Unless stated otherwise, specifications are typical and rated at full load, nominal input voltage, convection cooling and 25°C.

INPUT

AC Input	Auto-ranging	90 to 132V 180 to 264V
Efficiency	MVLT40-3203 Other models	75% 82%
Input Frequency		47— 63 Hz
Input Current	Full load at low line	1.1Arms, max
Inrush Current	High line, cold start	75A, max
Leakage Current		<250 A

OUTPUT

Output Power		40W max
Voltage Set Point		See table
Hold-Up Time	115V/230V	6ms/15ms
Voltage Set Point Accuracy	V1 V2 and V3	±3% ±5%
Line Regulation	Low line to high line	0.3%
Load Regulation	Min to 50% full load V1 V2 and V3	 ±3% ±5%
Transient Response	50% to Full Load Voltage Deviation Recovery Time	 10%, max <5 ms
OVP	V1 only 3.3V V1 only 5V	3.95V,±0.25V 6.2V,±0.4V
Overload Protection	Primary limited	Yes, 130%
Short Circuit Protection	Auto recovery <6s	Short Term
Ripple and Noise	3.3V and 5V V2 and V3	50mV 1%
Output Rise Time	All outputs	<100ms

ENVIRONMENTAL

Operating Temperature		0 to 50°C
Storage Temperature		–40 to 85°C
Cooling		Convection
Relative Humidity	Non condensing	95%, max
MTBF	MIL-HDBK-217F	>200,000 hrs

EMC AND SAFETY

CE Mark	Full compliance with the LVD
EMC	EN55022-B, CISPR22-B, FCC Part 15 Class B, EN50082-1, EN60601-1-2
Agency Approvals	VDE, UL, c-UL
Safety Standards	IEC601, EN60601-1-2, UL2601, CSA C22.2 No 601 Class 1 SELV
Safety File numbers	VDE: 18934-3336 UL: E173812
Isolation Voltage	4000 VAC

Model Number	Output	Voltage/ Current *	Voltage Set Point	Min. Load
MVLT40-1200	V1	5V@8.0A	5.1V	0.2A
MVLT40-1201	V1	12V@3.5A	12V	0.1A
MVLT40-1202	V1	15V@2.7A	15V	0.1A
MVLT40-1203	V1	24V@1.7A	24V	0.05A
MVLT40-3200	V1	5V@6.0A	5.2V	0.5A
	V2	12V@2.0A	12.5V	0.1A
	V3	-12V@0.5A	-12.8V	0.0A
MVLT40-3201	V1	5V@6.0A	5.2V	0.5A
	V2	24V@1.0A	23.8V	0.1A
	V3	-12V@0.5A	-12.8V	0.0A
MVLT40-3202	V1	5V@6.0A	5.2V	0.5A
	V2	15V@1.5A	14.6V	0.1A
	V3	-15V@0.5A	-16.0V	0.0A
MVLT40-3203	V1	3.3V@6.0A	3.3V	0.5A
	V2	5V@3.0A	5.1V	0.1A
	V3	-12V@0.5A	-12.8V	0.0A

*Maximum current per output channel. Do not exceed total output power rating

MECHANICAL

AC Input Connector J1	Molex 3 position, 0.156 center header 26-60-4030-P or equivalent
Ground Connector	Mounting Hole
DC Output Connector J2	Molex 6 position, 0.156 center header 26-60-4060-P or equivalent
Size	2x4x1.07 (50.8x101.6x27.2mm)
Weight	4oz (100g)

INPUT CONNECTOR J1

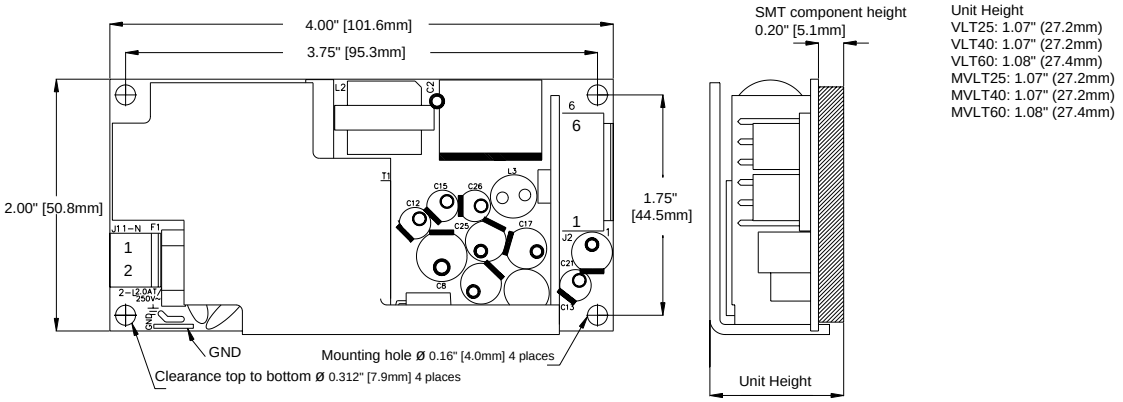
Pin 1	Neutral
Pin 2	Line
Input Spade Connector	
GND	Ground

OUTPUT CONNECTOR J2

	Single Output	Triple Output
Pin 1	+V1	+V1
Pin 2	+V1	+V1
Pin 3	DC Return	DC Return
Pin 4	DC Return	DC Return
Pin 5	NC	-V3
Pin 6	NC	+V2

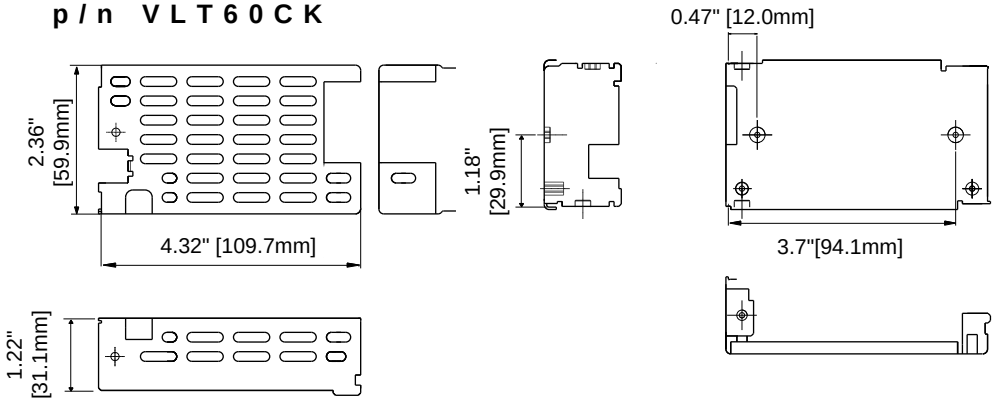
EOS Corporation
MECHANICAL SPECIFICATION

Dimensions



Unit Height
VLT25: 1.07" (27.2mm)
VLT40: 1.07" (27.2mm)
VLT60: 1.08" (27.4mm)
MVLT25: 1.07" (27.2mm)
MVLT40: 1.07" (27.2mm)
MVLT60: 1.08" (27.4mm)

Cover Kit p/n VLT60CK



Contents
Mounting bracket
Cover
Insulator
M3 fixing screws

VLT60CK Derating Guidelines

VLT25/MVLT25: ambient >40oC, derate by 1.3W/oC to 50oC. 5CFM fan recommended to circulate air.

VLT40/MVLT40: ambient >40oC, derate by 1.3W/oC to 50oC. 5CFM fan recommended to circulate air.

VLT60/MVLT60: ambient >40oC, derate by 1.3W/oC to 50oC. 5CFM fan recommended to circulate air.